Appendix 4: GRADE CLASSIFICATION of quality of evidence for coffee consumption and health outcomes [posted as supplied by author]

Key

Mortality Cardiovascular Cancer Metabolic Liver & GI Renal Pregnancy Musculoskeletal Neurological Gynaecological

## GRADE Classification of quality of evidence

Mortality Outcome	Assessed with	n Author	Year	No. of studies	RCTs	Cohort	Case- control	Risk of Bias	Inconsistency	Indirectness	Imprecision	Publication bias	Plausible Confounding	Magnitude of effect	Dose- response gradient	Quality
All-cause Mortality	NLDR	Grosso <sup>28</sup>	2016	24	0	24	0	Serious Risk	Very Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected(j)	Would reduce effect	No	Yes	⊕○○○ VERY LOW
Cancer Mortality	NLDR	Grosso <sup>28</sup>	2016	15	0	15	0	Serious Risk	Very Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected(j)	Would reduce effect	No	Yes	⊕○○○ VERY LOW
CHD Mortality	NLDR	Grosso <sup>28</sup>	2016	12	0	12	0	Serious Risk	Very Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected(j)	Would reduce effect	No	Yes	⊕○○○ VERY LOW
CVD Mortality	NLDR	Grosso <sup>28</sup>	2016	23	0	23	0	Serious Risk	Very Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected(j)	Would reduce effect	No	Yes	⊕○○○ VERY LOW
Cirrhosis Mortality	1 extra cup/day	Kennedy <sup>9</sup>	2016	4	0	4	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected(g)	Would reduce effect	No	Yes	⊕⊕○○ LOW
Stroke Mortality	NLDR	Grosso <sup>28</sup>	2016	9	0	9	0	Serious Risk	Very Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected(j)	Would reduce effect	No	Yes	⊕○○○ VERY LOW
Post MI-mortality	HIGH versus LOW	Brown <sup>30</sup>	2016	2	0	2	0	Serious Risk	No Serious Inconsistency	No Serious Indirectness	No Serious Risk	(h)	Would reduced effect	No	No	⊕○○○ VERY LOW
Cardiovascular	Accord with	. Author	Voor	No. of	DCT <sub>C</sub>	Cohort	Case-	Risk of	Inconsistancy	Indirectness	Improcision	Publication bias	Plausible	Magnitude of	Dose-	Quality

Cardiovascular Outcome	Assessed with	Author	Year	No. of studies	RCTs	Cohort	Case- control	Risk of Bias	Inconsistency	Indirectness	Imprecision	Publication bias	Plausible Confounding	Magnitude of effect	Dose- response gradient	Quality
Atrial Fibrillation	1 extra cup/day	Larsson <sup>32</sup>	2015	6	0	6	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would not reduce effect	No	No	⊕○○○ VERY LOW
Cardiovascular Disease	HIGH versus LOW	Ding <sup>19</sup>	2014	35	0	35	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would not reduce effect	No	No	⊕⊖⊖⊖ VERY LOW
Coronary Heart Disease	HIGH versus LOW	Ding <sup>19</sup>	2014	23	0	23	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would not reduce effect	No	No	⊕○○○ VERY LOW

															Dose-	
Cardiovascular Outcome	Assessed with	Author	Year	No. of studies	RCTs	Cohort	Case- control	Risk of Bias	Inconsistency	Indirectness	Imprecision	Publication bias	Plausible Confounding	Magnitude of effect	response gradient	Quality
Diastolic Blood Pressure	Coffee versus Control	Steffen <sup>35</sup>	2012	12	12	0	0	Serious Risk	No Serious Inconsistency	No Serious Indirectness	Serious Risk	(h)	Would not reduce effect	No	No	⊕⊕⊖⊖ LOW
HDL-Cholesterol	Coffee versus Control	Cai <sup>36</sup>	2012	9	9	0	0	Serious Risk	No Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would not reduce effect	No	No	⊕⊕⊖⊖ LOW
Heart Failure	HIGH versus LOW	Mostofsky <sup>24</sup>	2012	5	0	5	0	Serious Risk	No Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would not reduce effect	No	No	⊕○○○ VERY LOW
Hypertension	HIGH versus LOW	Zhang <sup>34</sup>	2011	6	0	6	0	Serious Risk	No Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would not reduce effect	No	No	⊕○○○ VERY LOW
LDL-Cholesterol	Coffee versus Control	Cai <sup>36</sup>	2012	7	7	0	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected	Would not reduce effect	No	No	⊕⊕⊖⊖ Low
Stroke	HIGH versus LOW	Ding <sup>19</sup>	2014	15	0	15	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would not reduce effect	No	No	⊕○○○ VERY LOW
Systolic Blood Pressure	Coffee versus Control	Steffen <sup>35</sup>	2012	12	12	0	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	(h)	Would not reduce effect	No	No	⊕⊕⊖⊖ Low
Total Cholesterol	Coffee versus Control	Cai <sup>36</sup>	2012	12	12	0	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	No Serious Risk	Strongly Suspected	Would not reduce effect	No	No	⊕⊕⊖⊝ LOW
Triglyceride	Coffee versus Control	Cai <sup>36</sup>	2012	6	6	0	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected	Would not reduce effect	No	No	⊕⊕⊖⊝ LOW
Venous Thromboembolism	HIGH versus LOW	Lippi <sup>33</sup>	2015	2	0	2	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	(h)	Would not reduce effect	No	No	⊕○○○ VERY LOW
Cancer Outcome	Assessed with	Author	Year	No. of studies	RCTs	Cohort	Case- control	Risk of Bias	Inconsistency	Indirectness	Imprecision	Publication bias	Plausible Confounding	Magnitude of effect	Dose- response gradient	Quality
All Cancer	1 extra cup/day	Yu <sup>38</sup>	2011	40	0	40	0	Serious Risk	Very Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected(g)	Would reduce effect	No	Yes	⊕⊖⊖⊖ VERY LOW
Bladder Cancer	1 extra cup/day	Wu <sup>135</sup>	2015	6	0	6	0	Serious Risk	No Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected(g)	Would not reduce effect	No	No	⊕○○○ VERY LOW

Serious No Serious

Serious No Serious

Inconsistency

Inconsistency

Risk

Risk

1 extra

1 extra

cup/day

Gan<sup>20</sup>

cup/day

2013 15

2017 15

15

15

0

0

0

Breast Cancer

Colon Cancer

No Serious

No Serious

Indirectness Risk

Indirectness Risk

No Serious

No Serious

Would not

effect

reduce effect

Would reduce No

Undetected(g)

Undetected

⊕⊕⊖⊝ LOW

⊕○○○ VERY LOW

Yes

Cancer Outcome	Assessed with	h Author	Year	No. of studies	RCTs	Cohort	Case- control	Risk of Bias	Inconsistency	Indirectness	Imprecision	Publication bias	Plausible Confounding	Magnitude of effect	Dose- response gradient	Quality
Colorectal Cancer	1 extra cup/day	Gan <sup>20</sup>	2017	17	0	17	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would reduce effect	No	No	⊕○○○ VERY LOW
Endometrial Cancer	1 extra cup/day	Wang <sup>39</sup>	2016	11	0	11	0	Serious Risk	Very Serious Inconsistency(h)	No Serious Indirectness	No Serious Risk	(h)	Would reduce effect	No	Yes	⊕○○○ VERY LOW
Gastric Cancer	1 extra cup/day	Zeng <sup>51</sup>	2015	9	0	9	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would not reduce effect	No	No	⊕○○○ VERY LOW
Glioma	1 extra cup/day	Malerba <sup>61</sup>	2012	3	0	3	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would not reduce effect	No	No	⊕○○○ VERY LOW
Laryngeal Cancer	HIGH versus LOW	Ouyang <sup>59</sup>	2014	8	0	1	7	Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would not reduce effect	No	No	⊕○○○ VERY LOW
Leukaemia	HIGH versus LOW	Yu <sup>38</sup>	2011	2	0	2	0	Serious Risk	No Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected(g)	Would not reduce effect	No	No	⊕○○○ VERY LOW
Liver Cancer	1 extra cup/day	Bravi <sup>43</sup>	2016	12	0	12	0	Serious Risk	No Serious Inconsistency(g)	No Serious Indirectness	No Serious Risk	Undetected	Would reduce effect	Large(k)	Yes	⊕⊕⊖⊝ LOW
Lymphoma	HIGH versus LOW	Wang <sup>39</sup>	2016	3	0	3	0	Serious Risk	No Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected(j)	Would not reduce effect	No	No	⊕○○○ VERY LOW
Lung Cancer	1 extra cup/day	Galarraga <sup>47</sup>	2016	21	0	8	13	Very Serious Risk	Serious Inconsistency	No Serious Indirectness	No Serious Risk	Detected	Would not reduce effect	No	Yes	⊕○○○ VERY LOW
Melanoma	1 extra cup/day	Wang <sup>45</sup>	2015	7	0	6	1	Serious Risk	Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected(g)	Would reduce effect	No	Yes	⊕○○○ VERY LOW
Non-melanoma skin cancer	HIGH versus LOW	Caini <sup>42</sup>	2017	4	0	4	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	No Serious Risk	(h)	Would reduce effect	No	No	⊕○○○ VERY LOW
Oesophageal Cancer	1 extra cup/day	Zheng <sup>58</sup>	2013	NP	0	NP	NP	Serious Risk	No serious Inconsistency(g)	No Serious Indirectness	Serious Risk	Undetected(g)	Would not reduce effect	No	No	⊕○○○ VERY LOW
Oral Cancer	HIGH versus LOW	Wang <sup>39</sup>	2016	6	0	6	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected(i)	Would reduce effect	No	No	⊕○○○ VERY LOW
Ovarian Cancer	1 extra cup/day	Braem <sup>53</sup>	2012	6	0	6	0	Serious Risk	Serious Inconsistency(g)	No Serious Indirectness	Serious Risk	Undetected(g)	Would not reduce effect	No	No	⊕○○○ VERY LOW
Pancreatic Cancer	1 extra cup/day	Ran <sup>136</sup>	2016	9	0	9	0	Serious Risk	No Serious Inconsistency(g)	No Serious Indirectness	Serious Risk	Undetected(g)	Would not reduce effect	No	No	⊕○○○ VERY LOW
Prostate Cancer	1 extra cup/day	Wang <sup>39</sup>	2016	10	0	10	0	Serious Risk	No Serious Inconsistency(g)	No Serious Indirectness	No Serious Risk	Undetected(g)	Would reduce effect	No	Yes	⊕⊕⊖⊖ LOW

Cancer Outcome	Assessed with	Author	Year	No. of studies	RCTs	Cohort	Case- control	Risk of Bias	Inconsistency	Indirectness	Imprecision	Publication bias	Plausible Confounding	Magnitude of effect	Dose- response gradient	Quality
Rectal Cancer	1 extra cup/day	Gan <sup>20</sup>	2017	14	0	14	0	Serious Risk	No Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would not reduce effect	No	No	⊕○○○ VERY LOW
Renal Cancer	1 extra cup/day	Huang <sup>137</sup>	2014	4	0	4	0	Serious Risk	No Serious Inconsistency(g)	No Serious Indirectness	Serious Risk	(h)	Would not reduce effect	No	No	⊕○○○ VERY LOW
Thyroid Cancer	HIGH versus LOW	Han <sup>54</sup>	2017	2	0	2	0	Serious Risk	No Serious Inconsistency	No Serious Indirectness	Serious Risk	(h)	Would reduce effect	No	No	⊕○○○ VERY LOW
Urinary Tract Cancer	ANY versus NONE	Zeegers <sup>49</sup>	2001	14	0	0	14	Very Serious Risk	^Very Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected	Would not reduce effect	No	No	⊕○○○ VERY LOW
Pregnancy Outcome	Assessed with	Author	Year	No. of studies	RCTs	Cohort	Case- control	Risk of Bias	Inconsistency	Indirectness	Imprecision	Publication bias	Plausible Confounding	Magnitude of effect	Dose- response gradient	Quality
1 <sup>st</sup> Trimester Preterm Birth	HIGH versus LOW	Maslova <sup>85</sup>	2010	NP	0	NP	NP	Serious Risk	Very Serious Inconsistency(h)	No Serious Indirectness	No Serious Risk	Undetected(g)	Would not reduce effect	No	No	⊕○○○ VERY LOW
2 <sup>nd</sup> Trimester Preterm Birth	HIGH versus LOW	Maslova <sup>85</sup>	2010	NP	0	NP	NP	Serious Risk	Very Serious Inconsistency(h)	No Serious Indirectness	No Serious Risk	Undetected(g)	Would not reduce effect	No	No	⊕○○○ VERY LOW
3 <sup>rd</sup> Trimester Preterm Birth	HIGH versus LOW	Maslova <sup>85</sup>	2010	NP	0	NP	NP	Serious Risk	Very Serious Inconsistency(h)	No Serious Indirectness	Serious Risk	Undetected(g)	Would not reduce effect	No	No	⊕○○○ VERY LOW
Acute Leukaemia of Childhood	HIGH versus LOW	Thomopoulous <sup>89</sup>	2015	6	0	0	6	Very Serious Risk	Serious Inconsistency	No Serious Indirectness	No Serious Risk	(h)	Would not reduce effect	No	No	⊕⊖⊖⊖ VERY LOW
Birth weight	Coffee versus Control	Jahanfar <sup>88</sup>	2015	1	1	0	0	Serious Risk	N/A	No Serious Indirectness	Serious Risk	N/A	Would not reduce effect	No	No	⊕⊕⊖⊝ LOW
Cardiovascular Malformations	HIGH versus LOW	Browne <sup>87</sup>	2006	4	0	1	3	Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	(h)	Would not reduce effect	No	No	⊕⊖⊖⊖ VERY LOW
Low Birth Weight	1 extra cup/day	Chen <sup>134</sup>	2014	2	0	1	1	Serious Risk	Very Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected(g)	Would not reduce effect	No	Yes	⊕⊖⊖⊖ VERY LOW
Neural Tube Defects	ANY versus NONE	Li <sup>86</sup>	2015	7	0	1	6	Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would not reduce effect	No	No	⊕○○○ VERY LOW
Oral Cleft Malformations	HIGH versus LOW	Browne <sup>87</sup>	2006	3	0	1	2	Serious Risk	No Serious Inconsistency	No Serious Indirectness	Serious Risk	(h)	Would not reduce effect	No	No	⊕○○○ VERY LOW
Pregnancy Loss	1 extra cup/day	Li <sup>23</sup>	2015	6	0	4	2	Serious Risk	*Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected(g)	Would not reduce effect	No	Yes	⊕⊖⊖⊖ VERY LOW

Pregnancy Outcome	Assessed with Author	Year	No. of studies	RCTs	Cohort	Case- control	Risk of Bias	Inconsistency	Indirectness	Imprecision	Publication bias	Plausible Confounding	Magnitude of effect	Dose- response gradient	Quality
Preterm birth	Coffee versus Control Jahanfar <sup>88</sup>	2015	1	1	0	0	Serious Risk	N/A	No Serious Indirectness	Serious Risk	N/A	Would not reduce effect	No	No	LOW
Small for gestational age	Coffee versus Control Jahanfar <sup>88</sup>	2015	1	1	0	0	Serious Risk	N/A	No Serious Indirectness	Serious Risk	N/A	Would not reduce effect	No	No	⊕⊕⊖⊝ LOW

Metabolic & Gastrointestinal Outcome	Assessed with	a Author	Year	No. of studies	RCTs	Cohort	Case- control	Risk of Bias	Inconsistency	Indirectness	Imprecision	Publication bias	Plausible Confounding	Magnitude of effect	Dose- response gradient	Quality
Chronic Liver Disease	1 extra cup/day	Bravi <sup>43</sup>	2016	6	0	6	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected(g)	Would reduce effect	Yes	Yes	⊕⊕⊖⊝ LOW
Cirrhosis	1 extra cup/day	Kennedy <sup>9</sup>	2016	7	0	7	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected(g)	Would reduce effect	No	Yes	⊕⊕⊖⊝ LOW
Gallstones	1 extra cup/day	Zhang <sup>25</sup>	2015	3	0	3	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected(g)	Would not reduce effect	No	Yes	⊕○○○ VERY LOW
Gastrointestinal Reflux Disease	HIGH versus LOW	Kim <sup>66</sup>	2013	15	0	0	15	Very Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would not reduce effect	No	No	⊕○○○ VERY LOW
Gout	HIGH versus LOW	Park <sup>69</sup>	2016	2	0	2	0	Serious Risk	No Serious Inconsistency	No Serious Indirectness	No Serious Risk	(h)	Would not reduce effect	No	No	⊕○○○ VERY LOW
Liver Fibrosis	ANY versus NONE	Liu <sup>63</sup>	2015	8	0	7	1	Serious Risk	Serious Inconsistency	No Serious Indirectness	No Serious Risk	(h)	Would reduce effect	No	No	⊕○○○ VERY LOW
Metabolic Syndrome	HIGH versus LOW	Shang <sup>26</sup>	2015	4	0	4	0	Serious Risk	No Serious Inconsistency	No Serious Indirectness	No Serious Risk	Strongly suspected(g)	Would not reduce effect	No	No	⊕○○○ VERY LOW
NAFLD	ANY versus NONE	Wijarnpreecha <sup>62</sup>	2017	3	0	1	1	Very Serious Risk	No Serious Inconsistency	No Serious Indirectness	No Serious Risk	(h)	Would reduce effect	No	No	⊕○○○ VERY LOW
Renal Stones	1 extra cup/day	Wang <sup>68</sup>	2014	5	0	3	2	Serious Risk	No Serious Inconsistency	No Serious Indirectness	No Serious Risk	Undetected	Would not reduce effect	No	Yes	⊕⊕⊖⊖ LOW
Type II diabetes	1 extra cup/day	Jiang <sup>67</sup>	2014	20	0	20	0	Serious Risk	No Serious Inconsistency(g)	No Serious Indirectness	No Serious Risk	Undetected(g)	Would not reduce effect	No	Yes	⊕⊕⊖⊝ LOW

Renal Outcome	Assessed with	Author	Year	No. of studies	RCTs	Cohort	Case- control	Risk of Bias	Inconsistency	Indirectness	Imprecision	Publication bias	Plausible Confounding	Magnitude of effect	Dose- response gradient	Quality
CKD	ANY versus NONE	Wijarnpreecha <sup>71</sup>	2016	4(e)	0	0	0	Very Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	(h)	Would reduce effect	No	No	⊕○○○ VERY LOW
Urinary Incontinence	ANY versus NONE	Sun <sup>70</sup>	2016	3(e)	0	1	0	Very Serious Risk	Very Serious Inconsistency	No Serious Indirectness	Serious Risk	(h)	Would reduce effect	No	No	⊕○○○ VERY LOW
Musculoskeletal Outcome	Assessed with	Author	Year	No. of studies	RCTs	Cohort	Case- control	Risk of Bias	Inconsistency	Indirectness	Imprecision	Publication bias	Plausible Confounding	Magnitude of effect	Dose- response gradient	Quality
Fracture	1 extra cup/day	Liu <sup>73</sup>	2012	10	0	10	0	Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	Strongly Suspected(g)	Would not reduce effect	No	No	⊕○○○ VERY LOW
Hip Fracture	1 extra cup/day	Li <sup>75</sup>	2013	4	0	4	0	Serious Risk	Serious Inconsistency(g)	No Serious Indirectness	Serious Risk	Undetected(g)	Would not reduce effect	No	No	⊕○○○ VERY LOW
Rheumatoid Arthritis	HIGH versus LOW	Lee <sup>76,77</sup>	2015	3	0	3	0	Serious Risk	No Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected(g)	Would not reduce effect	No	No	⊕○○○ VERY LOW
Neurological Outcome	Assessed with	Author	Year	No. of studies	RCTs	Cohort	Case- control	Risk of Bias	Inconsistency	Indirectness	Imprecision	Publication bias	Plausible Confounding	Magnitude of effect	Dose- response gradient	Quality
Alzheimer's Disease	1 extra cup/day	Liu <sup>82</sup>	2016	2	0	2	0	Serious Risk	No Serious Inconsistency	No Serious Indirectness	Serious Risk	(h)	Would not reduce effect	No	No	⊕○○○ VERY LOW
Cognitive Decline	1 extra cup/day	Liu <sup>82</sup>	2016	8	0	8	0	Serious Risk	No Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would not reduce effect	No	No	⊕○○○ VERY LOW
Depression	1 extra cup/day	Wang <sup>81</sup>	2016	5(e)	0	2	1	Very Serious Risk	Serious Inconsistency	No Serious Indirectness	No Serious Risk	Strongly Suspected	Would not reduce effect	No	Yes	⊕○○○ VERY LOW
Parkinson's Disease	1 extra cup/day	Hernan <sup>78</sup>	2002	4	0	4	0	Serious Risk	Very Serious Inconsistency(g)	No Serious Indirectness	No Serious Risk	Undetected(j)	Would not reduce effect	No	Yes	⊕○○○ VERY LOW
Gynaecological Outcome	Assessed with	Author	Year	No. of studies	RCTs	Cohort	Case- control	Risk of Bias	Inconsistency	Indirectness	Imprecision	Publication bias	Plausible Confounding	Magnitude of effect	Dose- response gradient	Quality
Endometriosis	ANY versus NONE	Chiaffarino <sup>83</sup>	2014	3	0	1	2	Serious Risk	Serious Inconsistency	No Serious Indirectness	Serious Risk	Undetected	Would not reduce effect	No	No	⊕⊖⊖⊖ VERY LOW

<sup>(</sup>e) Included cross-sectional studies

- (g) Based on heterogeneity/publication bias of overall study
- (h) No heterogeneity/publication bias published
- (i) Based on alternative measure of heterogeneity
- (j) Stated as undetected
- (k) Based on HIGH versus LOW comparisons